California Regional Water Quality Control Board Santa Ana Region 3737 Main Street, Suite 500 Riverside, CA 92501-3348

NOTICE OF PUBLIC HEARING

For RESOLUTION NO. R8-2006-0042 ORDER NO. R8-2006-0005

For

INITIAL STUDY AND NEGATIVE DECLARATION AND ISSUANCE OF GENERAL WASTE DISCHARGE REQUIREMENTS FOR DISCHARGE OF SALTS THROUGH THE INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION

On the basis of preliminary staff review and application of lawful standards and regulations, the California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), proposes to adopt an initial study and negative declaration and issue general waste discharge requirements for the injection/percolation of imported State Project Water, Colorado River water or imported well water to recharge groundwater management zones within the Santa Ana. Region.

The Board is seeking comments concerning the proposed initial study and negative declaration and general waste discharge requirements and the potential effects of the discharges on the water quality and beneficial uses of the affected receiving waters.

The Board will hold a public hearing to consider adoption of the proposed waste discharge requirements as follows:

DATE: , 2006 TIME: 9:00 a.m.

PLACE: City Council Chambers of Santa Ana

22 Civic Center Plaza City of Santa Ana

Interested persons are invited to submit written comments on the proposed Resolution No. R8-2006-0042 and Order No. R8-2006-0005. Interested persons are also invited to attend the public hearing and express their views on issues relating to the proposed Order and submission. Oral statements will be heard, but should be brief to allow all interested persons time to be heard. For the accuracy of the record, all testimony (oral statements) should be submitted in writing.

Although all comments that are provided up to and during the public hearing on this matter will be considered, receipt of comments by , 2006 would be appreciated so that they can be used in the formulation of the draft Order that will be transmitted to the Board two weeks prior to the hearing. The draft Order may contain changes resulting from comments received from the public. To view and/or download a copy of the draft Order, please access our website at www.waterboards.ca.gov/santaana on or after , 2006.

The Board's proposed Order, related documents, and all comments and petitions received may be inspected and copied at the Regional Board office, 3737 Main Street, Suite 500, Riverside, CA 92501-3348 (phone 951-782-4130) by appointment scheduled between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday. Copies of the proposed Order will be mailed to interested persons upon request to J. Shami (951) 782-3288.

Any person who is physically challenged and requires reasonable accommodation to participate in this Regional Board Meeting should contact Felipa Carrillo at (951) 782-3285 no later than , 2006.

California Regional Water Quality Control Board Santa Ana Region

, 2006

Staff Report

ITEM:

SUBJECT:

General Waste Discharge Requirements for the discharge of salts through injection/percolation of imported State Project Water, Colorado River Water or imported well water to recharge groundwater management zones within the Santa Ana Region – Groundwater Replenishment Projects Order No. R8-2006-0005

I DISCUSSION:

Background

The Regional Water Board adopted a revised Water Quality Control Plan for the Santa Ana Region (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters in the Santa Ana Region addressed through the plan. More recently, the Basin Plan was amended significantly to incorporate revised boundaries for groundwater subbasins, now termed "management zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The Regional Water Board adopted the Basin Plan Amendment on January 22, 2004. The State Water Resources Control Board (State Water Board) and Office of Administrative Law (OAL) approved the Amendment on September 30, 2004 and December 23, 2004, respectively. The surface water standards provisions of the Amendment are awaiting approval by the U.S. Environmental Protection Agency but do not bear significantly on these proposed general waste discharge This Order implements provisions of the Amendment that are related to requirements. groundwater management zones.

The Nitrogen/TDS Basin Plan Amendment was the culmination of a multi-year, multi-million dollar (\$3.5+M) effort sponsored by the N/TDS Task Force, with extensive participation by and close coordination with Regional Board staff. The Task Force included 22 water supply and wastewater management agencies and other stakeholders throughout the Region. The effort was initiated because of concerns that (1) the nitrate-nitrogen and TDS groundwater quality objectives specified in the Basin Plan had been established in a relatively short time in early (1970s) basin planning work for the Region and might not have benefited from a high level of scientific rigor, and (2) the established objectives would likely place significant restrictions on wastewater recycling, which was expected to be increasingly needed to meet the Region's rapidly growing demand for water supply.

The Task Force's recommendations for changes to the Basin Plan, including new groundwater management zones, new TDS and nitrate-nitrogen objectives for those zones and revised TDS and nitrogen management strategies, were the result of intensive, rigorous scientific evaluation of relevant water quality, geologic and hydrologic data. In addition, as described next, certain

members of the Task Force pursued evaluations and developed recommendations based on consideration of the requirements of the State's antidegradation policy (SWRCB Resolution No. 68-16), leading to the development of "Maximum Benefit" TDS and nitrate-nitrogen objectives and water resource management commitments for specific groundwater management zones.

Several agencies proposed that alternative TDS and/or nitrate-nitrogen water quality objectives less stringent than those developed by the Task Force based on historical water quality (the so-called "antidegradation" objectives) be adopted for specific groundwater management zones. The underlying intent of these proposals was to assure that the TDS and nitrate-nitrogen objectives for specific management zones were consistent with and would accommodate the water and wastewater resource management plans of the involved agencies, including the use of recycled water for groundwater recharge and reuse. Since the less stringent objectives would allow a lowering of water quality, the agencies were required to satisfy antidegradation requirements, that is, to demonstrate that their proposed objectives would protect beneficial uses, and that water quality consistent with maximum benefit to the people of the state would be maintained.

Appropriate beneficial use protection/maximum benefit demonstrations were made by the Chino Basin Watermaster/Inland Empire Utilities Agency, the Yucaipa Valley Water District and the City of Beaumont/San Timoteo Watershed Management Authority to justify alternative "maximum benefit" objectives for the Chino North, Cucamonga, Yucaipa, Beaumont and San Timoteo groundwater management zones. These "maximum benefit" proposals, which are described in detail in Chapter 5 - Implementation of the Amended Basin Plan, entail commitments by the agencies to implement specific projects and programs. While these agencies' efforts to develop these proposals indicate their strong interest to proceed with these commitments, unforeseen circumstances may impede or preclude it. To address this possibility, the Basin Plan Amendment included both the "antidegradation" and "maximum benefit" objectives for the subject groundwater management zones (See Table 4-1 of the amended Basin Plan, included in this general WDR as Attachment A). Chapter 5 of the amended Basin Plan specifies the requirements for implementation of these objectives. Provided that these agencies' commitments are met, then the agencies have demonstrated maximum benefit, and the "maximum benefit" objectives included in Table 4-1 of the amended Basin for these waters apply for the purposes of regulating projects by these agencies (and other recharge project proponents whose projects are found consistent with the maximum benefit programs; see further discussion below). However, if the Regional Board finds that these commitments are not being met and that "maximum benefit" is thus not demonstrated, then the "antidegradation" objectives for these waters will apply. Chapter 5 of the amended Basin Plan also describes the mitigation requirements that will apply should discharges based on "maximum benefit" objectives occur unsupported by the demonstration of "maximum benefit".

Another key component of the N/TDS Task Force effort was the characterization of current ambient quality for TDS and nitrate-nitrogen in the groundwater management zones. Current ambient water quality was defined as the 20-year average of TDS and nitrate-nitrogen data for each management zone from 1978 through 1997. Current ambient quality is compared to the water quality objectives for the groundwater management zones to determine whether there is TDS and/or nitrate-nitrogen assimilative capacity in each of the management zones (Tables 5-3 and 5-4 of the amended Basin Plan). Findings regarding assimilative capacity have great regulatory importance. Where no assimilative capacity exists, i.e., where current quality is poorer than the objectives, TDS and nitrate-nitrogen discharges must be held to the groundwater

management zone objectives, unless Regional Board approved TDS and/or nitrate-nitrogen offset programs that assure effective compliance with objectives are implemented. Where there is assimilative capacity, i.e., where current TDS and/or nitrate-nitrogen quality is better than the objectives, salt discharges must be held to current quality, unless antidegradation requirements are satisfied.

Rationale for Issuance of the Proposed Waste Discharge Requirements

Importation of State Project Water (SPW) and Colorado River Water (CRW) has long been a key part of the water supply plan within the Region. With the recent completion of new water conveyance systems, a number of agencies plan to increase recharge of groundwater management zones in the Santa Ana Region with these imported sources of supply when they are plentiful. In addition, water supply agencies are investigating the feasibility of importing or transferring groundwater pumped from one management zone for use/recharge in other areas of the Region. These agencies also plan to extract this stored water when potable water demand is high. These projects include those proposed by Elsinore Valley Municipal Water District for the Back Basin Groundwater Storage Project, Eastern Municipal Water District's Grant Avenue Recharge Project, and the San Gorgonio Pass Water Agency's Brookside South Streambed Recharge Project. Other projects are in the planning stages.

To date, the Regional Board has not regulated groundwater recharge projects using imported SPW, CRW or well waters, even where the concentrations of nitrogen, TDS (or other) constituents exceeded relevant Basin Plan objectives and/or current ambient quality. However, given the increased number and magnitude of the water recharge projects being contemplated, and in view of the extensive commitments that have been and will be made by dischargers and other stakeholders in the Region to develop and implement the new TDS and nitrate-nitrogen objectives, it is appropriate and in fact legally required to assure that those projects are consistent with the objectives and with the antidegradation policy. Otherwise, Basin Plan objectives and/or antidegradation requirements could be violated and the TDS and nitrate-nitrogen management activities undertaken by certain stakeholders could be compromised by the recharge activities of others. To assure that imported water groundwater recharge projects do not cause or contribute to violations of applicable water quality standards and antidegradation requirements, staff recommends the adoption of Order No. R8-2006-0005.

II. REGULATORY BASIS FOR WASTE DISCHARGE REQUIREMENTS

This Order includes requirements that implement the Water Quality Control Plan (Basin Plan), which was adopted by the Regional Board on March 11, 1994. The Basin Plan was approved by the Office of Administrative Law and became effective on January 24, 1995. On January 22, 2004, the Regional Water Board adopted Resolution No. R8-2004-0001, amending the Basin Plan to incorporate revised boundaries for groundwater subbasins, now termed "management zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. The amendment also included findings of TDS and nitrate-nitrogen assimilative capacity in the management zones. The State Water Resources Control Board and Office of Administrative Law (OAL) approved the N/TDS Amendment on September 30, 2004 and December 23, 2004, respectively.

The Basin Plan specifies water quality objectives and beneficial uses for the waters of the Santa Ana Region. The existing and potential beneficial uses of underlying groundwater management zones in the Santa Ana Region include municipal and domestic supply, agricultural supply, industrial process supply, and industrial service supply.

The proposed Order specifies numeric and narrative limits for the constituents expected to be present in the water used for recharge. The specified limits are consistent with the Basin Plan objectives and antidegradation requirements. The TDS limits and two sets of TIN limits (one set that applies to discharges of nitrogen resulting from reinjection and one that applies to discharges of nitrogen resulting from recharge/percolation) are shown in Attachment A to the Order. The TIN limits applicable to recharge/percolation projects reflect the application of the nitrogen loss coefficient authorized in the amended Basin Plan (see Chapter 5, Implementation, TDS and Nitrogen Management, III. TDS/Nitrogen Management Plan, B. TDS and Nitrogen Regulation, 3. Nitrogen Loss Coefficients). This nitrogen loss coefficient does not apply to establishing limits for nitrogen discharges resulting from reinjection. For both TDS and TIN, the limits are generally based on the water quality objectives or on current ambient quality, whichever is more restrictive. The exception is the limits applicable to groundwater management zones with maximum benefit objectives. In these cases, the limits are based on the maximum benefit objectives even where current ambient quality is better than the objectives. This is appropriate because antidegradation requirements were satisfied in establishing the maximum benefit objectives.

Some recharge projects are or may be proposed for groundwater management zones without assimilative capacity for TDS and/or nitrate-nitrogen. In these cases, discharges of TDS and/or nitrogen must be limited to the groundwater management zone objectives. In some instances however, the TDS or nitrogen quality of the imported water proposed for recharge may exceed the TDS or nitrate-nitrogen water quality objectives for the specific groundwater management zone where the groundwater recharge is to occur. In these circumstances, project proponents have proposed or may propose to divert storm runoff into the recharge basins to assure that recharge of the combined flows meets the TDS and/or nitrogen objectives of the groundwater management zone. This Order allows proponents to flow weight the TDS or nitrogen quality of surface water and storm water for recharge.

For those groundwater management zones where assimilative capacity for TDS and/or nitrate-nitrogen is available without maximum benefit program implementation (see Tables 5-3 and 5-4 of the amended Basin Plan), this Order requires compliance with TDS and nitrate-nitrogen limits based on current ambient quality. Where a recharge project proponent proposes the use of water that contains TDS and/or nitrate-nitrogen in excess of current ambient quality, coverage under separate requirements will be necessary. Separate Regional Board consideration of appropriate TDS and nitrate-nitrogen limitations for such projects is necessary to determine whether or not it is appropriate to allocate some of the available assimilative capacity to the proposed project, and, if so, how much. These project proponents will be required to demonstrate that the project complies with antidegradation requirements. It must be determined whether and to what extent the proposed project will result in a lowering of water quality and, if so, whether (1) beneficial uses will continue to be protected and (2) the lowering of water quality is of maximum benefit to the people of the state.

The maximum benefit programs of the Chino Basin Watermaster/Inland Empire Utilities Agency, the Yucaipa Valley Water District and the City of Beaumont/San Timoteo Watershed Management Authority generally result in higher maximum benefit management zone water quality objectives that create assimilative capacity for TDS and nitrate-nitrogen in the affected management zones (the single exception is the Chino North Management Zone; in this zone, no assimilative capacity for nitrate-nitrogen exists under either the maximum benefit or antidegradation objective scenario; see Tables 5-3 and 5-4 of the amended Basin Plan). In the absence of the maximum benefit programs, the antidegradation objectives apply to the affected management zones and no assimilative capacity for either TDS or nitrate-nitrogen exists in these management zones. The Basin Plan specifies that the assimilative capacity created by maximum benefit program implementation is to be allocated solely to the agencies responsible. Taken together, these circumstances mean that there is no assimilative capacity available for recharge projects by other agencies; salt discharges resulting from these projects would be regulated pursuant to the antidegradation water quality objectives for these management zones. However, if the maximum benefit agencies confirm that proposed recharge projects by other proponents are consistent with their maximum benefit programs, then salt discharges resulting from these other projects would be regulated pursuant to the discharge limitations based on the maximum benefit objectives.

Monitoring is the primary means of ensuring that waste discharge requirements are met. It is also the basis for enforcement actions against dischargers who are in violation of the waste discharge requirements issued by the Regional Board. All dischargers enrolled under this general permit will be required to conduct monitoring in accordance with a monitoring program issued by the Executive Officer. Each monitoring and reporting program will be customized for each enrollee based on the characteristics of the water to be used for recharge. The typical required constituents and frequency of analyses are tabulated in the self-monitoring program attached to this general permit as "Typical Monitoring and Reporting Program (MR&P) No. R8-2006-0005." This monitoring and reporting program will be revised as appropriate for each discharger. An increase of the parameters or frequency of monitoring will be required if monitoring data show the presence of specific pollutants of concern that are not limited in this Order. This Order may be reopened to include effluent limitations for such constituents. A reduction of the parameters or frequency of monitoring may be implemented with prior approval of the Executive Officer when monitoring data demonstrate that such reduction is warranted.

The Order also requires the discharger to monitor for Total Trihalomethanes (THM)¹, 1-4 Dioxane, Methyl-tert-butyl ether (MTBE), Perchlorate and N-Nitrosodimethylamine (NDMA) on a quarterly basis. These constituents have been determined to be present in imported water at low concentrations. If any of these constituents are detected at levels above the concentrations shown in the Table below, the discharger will be required to accelerate monitoring for that specific constituent to monthly. If the detected concentrations are persistent and considerable², the discharger may be required to implement measures to reduce discharges of such constituent(s) into the ground and apply for an individual permit.

Sum of bromodichlormethane, dibromochloromethane, bromoform and chloroform

Persistent and considerable is defined as being detected at levels 10 times the concentration shown in the table for three consecutive months during the accelerated monitoring.

Parameter	Concentration (ug/L)
1-4 Dioxane	3^3
N-Nitrosodimethylamine (NDMA)	0.01^{3}
Perchlorate	6^3
Methyl-tert-butyl ether (MTBE)	13 ⁴
Total Trihalomethanes (THM)	100^4

This Order requires the discharger to conduct an annual monitoring of constituents with primary contaminant levels (MCLs) and secondary MCLs. If any of these constituents are detected in the annual scan at levels above the MCLs, the discharger is required to conduct accelerated monitoring for that specific constituent to determine whether such parameters are persistent and considerable and should be limited in this Order.

The proposed Order requires prospective dischargers to file: (a) a Notice of Intent (NOI) to comply with the terms and conditions of these General Waste Discharge Requirements (WDRs), or a report of waste discharge (ROWD); (b) the applicable first annual fee as required by Title 23, CCR, Section 2200; (c) a project map; (d) evidence of California Environmental Quality Act (CEQA) compliance; and (e) a monitoring plan. In addition, for projects that would affect groundwater management zones for which both maximum benefit and antidegradation TDS and nitrate-nitrogen objectives have been established in the Basin Plan ("maximum benefit management zones", the proposed Order requires dischargers to file with the NOI (or ROWD) documentation that demonstrates that the project is consistent with the applicable maximum benefit programs and commitments identified in the Basin Plan. This requirement may be satisfied by the submittal of a letter from the agency (-ies) responsible for the maximum benefit programs for the affected groundwater management zones that confirms that the proposed project(s) is consistent with the maximum benefit program.

Upon review of the NOI (or ROWD) by Regional Board staff, a determination will be made as to whether or not coverage under these General WDRs is appropriate. The Regional Board's Executive Officer would issue an authorization letter to the project proponent after staff has determined that proposed salt discharges resulting from imported water recharge can be covered under these General WDRs. If the proposed salt discharges associated with the recharge cannot be regulated under these general WDRs, the discharger will be notified by a letter from the Regional Board's Executive Officer or designee and alternative salt discharge requirements will be drafted.

The proposed limitations for discharges of salts resulting from recharge activities and the proposed monitoring and reporting program should be adequate to protect the beneficial uses of the waters in the area.

Based on CDHS' notification Level

⁴ Based on CDHS' MCL

RECOMMENDATION:

Adopted Order No. R8-2006-0005 as presented.

Comments were solicited from the following:

State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon

State Water Resources Control Board, Division of Water Quality – Jim Maughan

State Department of Water Resources - Glendale

State Department of Health Services, Santa Ana –

State Department of Health Services, San Bernardino – Sean McCarthy

State Department of Health Services, San Diego – Steven Williams

Orange County Public Facilities and Resources Department - Chris Crompton

Orange County Health Care Agency - Seth Daugherty

Orange County Water District - Nira Yamachika

Riverside County Environmental Health Department - Sandy Bonchek

San Bernardino County Department of Public Works, Environmental Management Division -

Naresh Varma

San Bernardino County Environmental Health Department – Daniel Avera

South Coast Air Quality Management District - Barry Wallerstein

Orange County Coastkeeper – Garry Brown

Lawyers for Clean Water C/c San Francisco Baykeeper

Elsinore Valley Municipal Water District

Yucaipa Valley Water District

City of Beaumont – Alan Kapanicas

Inland Empire Utilities Agency – Patrick O. Sheilds

Santa Ana Watershed Project Authority – Daniel Cozad

Santa Ana River Dischargers Association

San Gorgonio Pass Water Agency

Orange County Coastkeeper

Lawyers for Clean Water C/c San Francisco Baykeeper

Chino Basin Watermaster

San Timoteo Watershed Management Authority

Wildermuth Environmental Inc. – Mark Wildermuth

Attached mailing list

Mike Nusser Eastern Municipal Water District P.O. Box 8300 Perris, CA 92572-8300 Craig Elitharp Rancho California Water Company 42135 Winchester Road Temecula, CA 92590 Lisa Schulz/Doug Headrick City of Redlands P.O. Box 6903 Redlands, CA 92375

Peter Fox City of Rialto 150 S. Palm Avenue Rialto, CA 92376 Kerwin Russell Riverside Corona Res. Conservation District 4500 Glenwood Drive, Building A Riverside, CA 92501 Don Hough Riverside Highland Water Company 1450 E. Washington Street Colton, CA 92324

Owen Lu/Michele Loy City of Riverside Public Utilities 2911 Adams Street Riverside, CA 92504-

Riverside Water Quality Control Plant 5950 Acorn Street Riverside, CA 92504 Steve Appel Rubidoux Community Services District P.O. Box 3098 Rubidoux, CA 92519-3098

Charles Moorees/Sharee Thumar San Antonio Water Company 139 N. Euclid Avenue Upland, CA 91786 Sam Fuller San Bernardino Valley Municipal Water Dist P.O. Box 5908 San Bernardino, CA 92412 Tom Crowley/Walter Christensen San Bernardino Valley Wtr Conserv District P.O. Box 1839 Redlands, CA 92373

Stacey Alstadt
City of San Bernardino MWD
300 N. D Street, 5th Floor
San Bernardino. CA 92418

Jim Bryson San Gabriel Valley Water Company 11579 Hadley Street Whittier, CA 90606-1954 Peg Noble San Gorgonio Pass Water Agency 1210 Beaumont Avenue Beaumont, CA 92223

Steve Mains
Santa Ana Watershed Project Authority
16115 Sterling Avenue
Riverside, CA 92503

Ruth Beglin Santa Margarita Watermaster P.O. Box 631 Fallbrook, CA 92088 Mark Wiley City of Upland P.O. Box 460 Upland, CA 91786

Anthony W. Araiza West Valley Water District 855 W. Baseline Rialto, CA 92377 Steve Mains Western Municipal Water District 450 Alessandro Boulevard Riverside, CA 92508 Joe Zoba Yucaipa Valley Water District P.O. Box 730 Yucaipa, CA 92399-0730

Jeff Davis San Gorgonio Pass Agency 1210 Beaumont Avenue Beaumont, CA 92223 Mike Huffstutler Bear Valley Mutual Water Company 101 E. Olive Avenue Redlands, CA 92373 Chuck Butcher Beaumont-Cherry Valley Water District POBox 2037 Beaumont, CA 92223

Rod Watkins Big Bear City Community Services District POBox 558 Big Bear City, CA 92314 Jerry Gruber Big Bear Lake, City of POBox 1929 Big Bear Lake, CA 92315 Henry Johnson Box Spring Mutual Water Co 21740 Dracaea Avenue Moreno Valley, CA 92557

Timothy Keys California Portland Cement 2025 E. Financial Way, Suite 200 Glendora, Ca 91741 Mike Malloy AC-S Facilities, Office of Water Resources Marine Corps Base, Box 555013 Camp Pendleton, CA 91730 Ken Manning Chino Basin Watermaster 9641 San Bernardino Rd Rancho Cucamonga, CA 91730 Glen Rojas City of Chino 13220 Central Avenue Chino, CA 91710

Robert Deloach Cucamonga Valley Water District 10440 Ashford St. Rancho Cucamonga, CA 91730

Robin Gray Elsinore Valley Municipal Water District POBox 3000 31315 Chaney St Lake Elsinore, CA 92531

Jaime Halcovich Geologic Associates 250 W. First St., Suite 228 Claremont, CA 91711

Tom Wagoner Lake Hemet Municipal Water District 2480 E. Florida Ave. Hemet, CA 92544

Joe Iomeli Western Municipal Water District 450 Alessandro Blvd. Riverside, CA 92517

Robert Kinne Devore Water Co. 18185 Kenwood Ave. Devore, CA 92407

Carol Wilson
California Dept. of Toxic Substances
Control
3450 Pyrite Rd.
Riverside, Ca 92509

Mike Medina City of Colton 650 N. Lacadena Drive Colton, CA 92324

Brian Tompkins East Valley Water District 3654 E. Highland Avenue, Suite 18 Highland, CA 92346

Ken Hunt Fontana Water Company 8353 Sierra Ave. Fontana, CA 92335

David Altman City of Hemet 445 E. Florida Avenue Hemet, CA 92543

Russ Handy City of Loma Linda 25541 Barton Road Loma Linda, Ca 92354

Bill Thompson City of Norco 1281 5th Street Norco, Ca 92517

Ken Hackmann City of Chino Hills 2001 Grand Avenue Chino Hills, CA 91709 West Curry City of Corona 730 Corporation Yard Way Corona, CA 92880

Tony Pack Eastern Municipal Water District POBox 8300 Perris, CA 92572

Ross Lewis Gage Canal Co. 7452 Dufferin Ave. Riverside, CA 92504

Carole McGrevy Jurupa Community Services District 11201 Harrel St. Mira Loma, CA 91752

Glenville Allen Loma Linda University 11100 Anderson St. Loma Linda, Ca 92354

Cari Dale City of Ontario 303 E. "B" St. Ontario, CA 91764

Greg Galindo Monte Vista County Water District POBox 71 Montclair, CA 91763

California Regional Water Quality Control Board Santa Ana Region

Order No. R8-2006-0005

GENERAL WASTE DISCHARGE REQUIREMENTS FOR THE DISCHARGE OF SALTS THROUGH INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION – GROUNDWATER REPLENISHMENT PROJECTS

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Water Board), finds that:

- 1. The Regional Water Board adopted a revised Water Quality Control Plan for the Santa Ana Region (hereinafter Basin Plan) that became effective on January 24, 1995. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters in the Santa Ana Region addressed through the plan. More recently, the Basin Plan was amended significantly to incorporate revised boundaries for groundwater subbasins, now termed "management zones", new nitrate-nitrogen and TDS objectives for the new management zones, and new nitrogen and TDS management strategies applicable to both surface and ground waters. New findings regarding TDS and hitrate-nitrogen assimilative capacity were also included. This Basin Plan Amendment was adopted by the Regional Water Board on January 22, 2004. The State Water Resources Control Board (State Water Board) and Office of Administrative Law (OAL) approved the Amendment on September 30, 2004 and December 23, 2004, respectively. The surface water standards provisions of the Amendment are awaiting approval by the U.S. Environmental Protection Agency. The groundwater-related components of the N/TDS Amendment became effective upon approval by OAL. Accordingly, these waste discharge requirements implement relevant, groundwater-related components of the N/TDS Amendment.
- 2. The adoption of the N/TDS Amendment resulted from an intensive and scientifically rigorous effort by stakeholders throughout the Region to address nitrogen and TDS water quality objectives and management strategies. Given the increased number and magnitude of water recharge projects being contemplated in the Region, and in view of the extensive commitments that have been and will be made by dischargers and other stakeholders in the Region to develop and implement the new TDS and nitrogen objectives, it is appropriate, as well as legally necessary, to assure that those projects are consistent with the objectives and with the antidegradation requirements specified in Resolution No. 68-16.. Failure to assure proper regulation of salt discharges resulting from recharge projects could result in violations of Basin Plan objectives and/or antidegradation requirements and compromise TDS and nitrogen management strategies implemented by other parties. The adoption of these general waste discharge requirements for salt discharges resulting from groundwater recharge projects will facilitate groundwater replenishment projects needed to assure a reliable water supply and will assure that such projects are conducted in accordance with the Basin Plan and anti degradation policy requirements.

- 3. The Board recognizes that the recharge of State Project Water is an important beneficial characteristic of a maximum benefit proposal and represents the best available supply source for imported water. This is demonstrated in the Board's draft of its "Guidance Document to Evaluate Compliance with California's Antidegradation Policy for Reclaimed Water Projects in the Santa Ana Watershed," dated October 2004, prepared as part of the work of the Nitrogen/TDS Task Force of Santa Ana Basin stakeholders, wherein it is stated that, "...recharge...best management practices...may include long-term commitments to import and store more State Project Water when the quality is relatively high."
- 4. For regulatory purposes, it is appropriate to define TDS, nitrogen and other constituents present in water proposed for recharge as waste.
- 5. As shown in Chapter 4 of the Basin Plan as amended by the N/TDS Amendment, two sets of TDS and nitrate-nitrogen objectives have been adopted for certain groundwater management zones (Chino North, Cucamonga, Yucaipa, San Timoteo and Beaumont Groundwater Management Zones (GMZ)): the "maximum benefit" objectives and more stringent objectives based on historic ambient quality (the "antidegradation" objectives). The application of the "maximum benefit" objectives for these Management Zones is contingent on the implementation of commitments by identified responsible parties to implement specific water and wastewater resources management programs. parties include the Chino Basin Watermaster and Inland Empire Utilities Agency (Chino North, Cucamonga GMZs), the City of Beaumont and the San Timoteo Watershed Management Authority (San Timoteo and Beaumont GMZs) and the Yucaipa Valley Water District (Yucaipa and San Timoteo GMZs). The maximum benefit commitments of these agencies are delineated in Chapter 5 of the Basin Plan, as amended by the N/TDS Amendment, and include compliance dates for the implementation of specific activities. These programs are part of a coordinated effort by the agencies to develop and implement projects that will assure reliable water supplies to meet rapidly increasing demands in this area.
- 6. This Order implements relevant portions of the N/TDS Amendment and antidegradation requirements by specifying limitations and other requirements based on the nitrate-nitrogen and TDS objectives for the groundwater management zones, or, where assimilative capacity is available without the implementation of maximum benefit programs, on current ambient nitrate-nitrogen and TDS quality. Where both "maximum benefit" and "antidegradation" objectives apply, limitations and other requirements based on both sets of objectives are specified.
- 7. This Order specifies TDS limits and two sets of TIN limits: One that applies to discharges of nitrogen resulting from reinjection and another that applies to nitrogen discharges resulting from recharge/percolation. The TIN limits applicable to recharge/percolation projects reflect the application of the nitrogen loss coefficient specified in the Basin Plan. This coefficient does not apply to establishing limits for nitrogen discharges resulting from reinjection.

- 8. For both TDS and TIN, the limits are generally based on the water quality objectives or on current ambient quality, whichever is more restrictive. The exception is the limits applicable to groundwater management zones with maximum benefit objectives. In these cases, the limits are based on the maximum benefit objectives even where current ambient quality is better than the objectives. This is appropriate because antidegradation requirements were satisfied in establishing the maximum benefit objectives.
- 9. For those recharge projects in areas where assimilative capacity for TDS or nitrate-nitrogen exists absent maximum benefit implementation and the recharge proponent proposes to use water that exceeds TDS and/or nitrate-nitrogen current ambient quality, separate salt discharge requirements will be considered. Separate consideration of appropriate requirements for such salt discharges is necessary to determine whether it is appropriate to allocate a part of the available assimilative capacity and, if so, how much. These project proponents must demonstrate that the proposed salt discharges associated with their projects will comply with antidegradation requirements.
- 10. Recharge projects are or may be proposed for groundwater management zones without assimilative capacity for TDS and/or nitrate-nitrogen. In these cases, discharges of TDS and nitrogen must be limited to the groundwater management zone objectives. However, the TDS and/or nitrogen quality of the imported water proposed for recharge may exceed the TDS or nitrate-nitrogen quality objectives for the management zone whether the groundwater recharge is to occur. In these circumstances, project proponents have proposed or may propose to divert storm runoff into the recharge basins to assure that recharge of the combined flows meets the TDS and nitrate-nitrogen objectives of the management zone. This Order allows proponents to flow weight the TDS or nitrogen quality of recharge water and storm water for recharge.
- 11. Entity(ies)/individual(s) proposing to discharges salts resulting from the recharge of State Project water, Colorado River water or other imported water, including well water, into groundwater management zones within the Santa Ana Region are hereinafter referred to as "discharger" and are subject to the terms and conditions of this Order.
- 12. The existing and potential beneficial uses of underlying groundwater basins in the Santa Ana Region include:
 - a. Municipal and domestic supply,
 - b. Agricultural supply,
 - c. Industrial service supply, and
 - d. Industrial process supply.
- 13. The requirements contained in this Order are necessary to implement the Basin Plan.

- Dischargers seeking coverage under these General WDRs must file with the Regional 14. Board: (a) a Notice of Intent (NOI) to comply with the terms and conditions of these General WDRs or a Report of waste discharge (ROWD); (b) the applicable first annual fee as required by Title 23, CCR, Section 2200; (c) a project map; (d) evidence of California Environmental Quality Act (CEQA) compliance; and (e) a proposed monitoring plan. In addition, for projects that would affect groundwater management zones for which both maximum benefit and antidegradation TDS and nitrate-nitrogen objectives have been established in the Basin Plan, proposed dischargers must file with the NOI (or ROWD) documentation that demonstrates that the project is consistent with the applicable maximum benefit programs and commitments identified in the Basin Plan. This requirement may be satisfied by the submittal of a letter from the agency(-ies) responsible for the maximum benefit programs for the affected management zones that confirms that the proposed project is consistent with the maximum benefit program. Upon review by Regional Board staff, a determination will be made as to whether or not coverage under these General WDRs is appropriate. A letter from the Regional Board Executive Officer will notify the Discharger when coverage under these General WDRs is authorized and will include project-specific monitoring and reporting requirements. If necessary, individual requirements will be developed to address projects that cannot be authorized under these General WDRs.
- 15. A Negative Declaration in compliance with CEQA has been adopted for these General WDRs. The environmental impacts from new discharges authorized by these General WDRs have been found to be less than significant.
- 16. The Regional Board has notified interested agencies and persons of its intent to prescribe general waste discharge requirements and has provided them with an opportunity to submit their written views and recommendations.
- 17. The Regional Board, in a public hearing, heard and considered all comments pertaining to these general waste discharge requirements.

IT IS HEREBY ORDERED that the Discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder shall comply with the following:

A. DISCHARGE SPECIFICATIONS

1. Discharges of constituents in excess of the following limits as the result of groundwater management zone recharge projects is prohibited:

Constituent	5 Year Average Concentration Limit ¹		
Total Dissolved Solids (TDS)	TDS Recharge Limitations as shown in the Attachment "A" corresponding to the affected Groundwater Management Zone		
Total Inorganic Nitrogen (TIN)	TIN Recharge Limitations as shown in the Attachment "A" corresponding to the affected Groundwater Management Zone		

- 2. The pH of the recharge water shall be within the range of 6 to 9 pH units.
- 3. The injection /percolation of water used for recharge shall not cause degradation of the receiving groundwater.

B. PROHIBITIONS

- 1. The discharge of TDS, nitrate-nitrogen or other constituents as the result of recharge of water that may adversely affect the beneficial uses of the groundwater is prohibited.
- 2. The discharge of wastes to property not owned or controlled by the discharger is prohibited.
- 3. The discharge of any substances in concentrations toxic to human, animal, plant or aquatic life is prohibited.

C. PROVISIONS

- 1. Neither the treatment nor the discharge of waste shall create, or threaten to create, a nuisance or pollution as defined by Section 13050 of the California Water Code.
- 2. For projects that would affect groundwater management zones with established TDS and nitrate-nitrogen objectives based on both "maximum benefit" and "antidegradation", the Discharger shall obtain confirmation from the agency (-ies) responsible for implementing relevant maximum benefit commitments², as specified in Tables 5-8a, 5-9a and 5-10a of the Basin Plan, that their proposed project is consistent with the agency's maximum benefit program. This confirmation shall be submitted as part of the NOI or ROWD. Absent this confirmation, the Discharger is required to comply with the TDS and nitrate-nitrogen limitations of this Order that are based on the antidegradation objectives.

Five year average concentration limit means the highest allowable average of monthly discharges over the last 60 months, calculated as the sum of all monthly discharges measured during last sixty months divided by the number of monthly discharges measured during that time period.

Includes the following agencies: Chino Basin Watermaster/Inland Empire Utilities Agency, the Yucaipa Valley Water District and the City of Beaumont/San Timoteo Watershed Management Authority

- 3. The Executive Officer shall determine whether the proposed recharge project is eligible for coverage under these general waste discharge requirements, after which, the Executive Officer may;
 - a. Authorize the proposed discharge by transmitting a "Discharge Authorization Letter" to the recharge proponent (now an "authorized discharger") authorizing the initiation of the recharge under the conditions of this Order and any other conditions consistent with this Order that are necessary to protect the beneficial uses of the receiving waters; or,
 - b. Require the recharge proponent to obtain individual waste discharge requirements prior to any recharge to waters of the State within the Santa Ana Region.
- 4. The discharge authorization letter from the Executive Officer shall specify any conditions necessary to protect the beneficial uses of the receiving waters and shall specify the Self-Monitoring Program for the proposed recharge in accordance with this Order. The discharge authorization letter may be terminated or revised by the Executive Officer at any time.
- 5. The discharger shall comply with all requirements of this Order and the terms, conditions and limitations of the discharge authorization letter.
- 6. The discharger shall comply with the monitoring and reporting program R8-2006-0005 issued by the Executive Officer. Revision of this monitoring and reporting program by the Executive Officer may be necessary to confirm that the discharger is in compliance with the requirements and provisions contained in this Order. Revisions may be made by the Executive Officer at any time during the term of this Order, and may include a reduction or an increase in the number of constituents to be monitored, the frequency of monitoring or the number and size of samples collected.
- 7. Compliance with the 5-year average limist specified under Recharge Specifications A.1. shall be determined by the average of the last sixty monthly averages.
- 8. Compliance with the discharge limitations shall be based on the practical quantitation levels (PQL) specified in Attachment "A" of M&RP No. R8-2006-0005 or on the lower detection limits achieved by the discharger. The recharge shall be considered to be in compliance with a discharge limitation that is less than or equal to the PQL specified in Attachment "A" of M&RP No. R8-2006-0005 if the arithmetic mean of all test results for the monitoring period is less than the constituent effluent limitation. Analytical results that are less than the specified PQL shall be assigned a value of zero.
- 9. Compliance determinations shall be based on available analyses for the time interval associated with the discharge limitation. Where only one sample analysis is available in a specified time interval (e.g., weekly, monthly, quarterly), that sample shall serve to characterize the discharge for the entire interval.

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- Compliance based on a single sample analysis shall be determined where appropriate, as 10. described below:
 - When the discharge limitation is greater than or equal to the PQL, compliance a. shall be determined based on the discharge limitation in either single or multiple sample analyses.
 - b. When the discharge limitation is less than the PQL, compliance determinations based on analysis of a single sample shall only be undertaken if the concentration of the constituent of concern in the sample is greater than or equal to the PQL.
- 11. The discharger must comply with all of the requirements of this Order. Any violation of this Order constitutes a violation of the California Water Code and is grounds for enforcement action, termination of this Order, revocation and reissuance of this Order, denial of an application for reissuance of this Order, or a combination thereof.
- 12. The discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.
- 13. The discharger shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any requirements specified in this Order, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.
- 14. The discharger shall maintain a copy of this Order at the site so that it is available to site operating personnel at all times. Key operating personnel shall be familiar with its content.
- 15. The discharger shall notify the Regional Board in advance of any planned physical alterations or additions to the permitted facility or changes in operation including any material change or proposed change in the character, location or volume of the discharge or activity that may result in noncompliance with these waste discharge requirements.
- 16. The discharger shall permit Board staff:
 - Entry upon premises in which an effluent source is located, or in which any a. required records are kept;
 - Access to copy any records required to be kept under the terms and conditions of b. this Order;
 - Inspection of monitoring equipment records; and c.
 - d. To sample any discharge.

- 17. The discharger shall report any discharge of waste that may endanger health or the environment. Any information shall be provided to the Executive Officer (909-782-4130) and the Office of Emergency Services (800-852-7550), if appropriate, as soon as the discharger becomes aware of the circumstances. A written report shall be submitted within five (5) days and shall contain a description of the discharge and its cause, the period of discharge, including exact dates and times and, if the discharge has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the discharge.
- 18. The California Water Code provides that any person who violates a waste discharge requirement or a provision of the California Water Code is subject to civil penalties of up to \$5,000 per day, \$10,000 per day, or \$25,000 per day of violation, or when the violation involves the discharge of pollutants, is subject to civil penalties of up to \$10 per gallon per day, or \$20 per gallon per day of violation; or some combination thereof, depending on the violation, or upon the combination of violations.

D. REQUIRED REPORTS AND NOTICES

- 1. The discharger shall give advance notice to the Regional Board of any planned changes in the permitted facility or activity that may result in noncompliance with these waste discharge requirements.
- 2. In the event of any change in control or ownership of land or water recharge facilities currently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of their authorization to discharge salts under this general permit by letter, a copy of which together with the signed agreement between previous owner and the new owner accepting responsibility and liability for complying with this general permit shall be forwarded to the Executive Officer.
- 3. Upon completion of the project, the discharger shall notify the Executive Officer of the Regional Board in writing about cessation of the discharge and shall request for termination of coverage under this general permit.

E. APPLICATION REQUIREMENTS

- 1. At least 60 days before the intended start of a new recharge project or individual permit expiration, the discharger shall submit an application for coverage under this Order. The authorization letter from the Executive Officer is required prior to commencement of the project. The application shall consist of the following information:
 - a. Notice of Intent to be covered under this general permit.
 - b. A report that shall include the following:

- 1) Characterization of the proposed recharge water. A representative water sample shall be analyzed for all 126-priority pollutants³ listed in Attachment B of the M&RP, TDS and nitrate-nitrogen.
- 2) The name and location where groundwater recharge is planned;
- The groundwater management zone(s) that would be affected by the recharge project;
- 4) The estimated average and maximum daily flow rates;
- 5) The frequency and duration of the recharge activity;
- 6) A description of the proposed treatment system (if appropriate); and
- 7) A map showing locations and sizes of recharge basins or aquifer storage/recovery wells.
- 8) For discharges of salts resulting from recharge projects that would affect groundwater management zones with both maximum benefit and antidegradation TDS and nitrate-nitrogen objectives, confirmation from the agency/-ies responsible for maximum benefit commitments (see Provisions C.2.) that the discharges are consistent with the maximum benefit program.
- c. Any other information deemed necessary by the Executive Officer.

I,	Gerard J.	Thibeault,	Executive	Officer, of	do hereb	y certify	that the	foregoing	g is a fu	ıll, true	e, and
cc	orrect copy	of an orde	er adopted l	by the Ca	alifornia l	Regional	Water (Quality C	ontrol E	Board,	Santa
A	na Region,	on, 2006.									

Gerard J. Thibeault	
Executive Officer	

Test methods shall be in accordance with 40 CFR 136. For testing organic volatile compounds use EPA Method 8260 and report entire suite of detected constituents. The method detection limit and detection level attained shall also be reported with the test results.

	Discha	Discharge Limitations (mg/L)			
Groundwater Management Zones	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects		
Big Bear Valley*	220	5.0	6.7		
Beaumont "maximum benefit"	330 ⁴	5.04	6.7		
Beaumont "antidegradation"	230	1.5	2.0		
Bunker Hill – A	310	2.7	3.6		
Bunker Hill – B	260 ⁵	5.5 ⁵	7.3		
Colton	410	2.7	3.6		
Chino – North "maximum benefit"	420 ⁶	5.0	6.7		
Chino 1- "antidegradation"	280	5.0	6.7		
Chino 2 – "antidegradation"	250	2.9	3.9		
Chino 3 – "antidegradation"	260	3.5	4.7		
Chino – East @	730	10.0	13.3		
Chino – South @	680	4.2	5.6		
Cucamonga "maximum benefit"	260 ⁶	5.0 ⁶	6.7		
Cucamonga "antidegradation"	210	2.4	3.2		
Lytle	2405	1.5	2.0		
Rialto	230	2.0	2.7		

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The Groundwater Management Zone has assimilative capacity created by the City of Beaumont and San Timoteo Watershed Management Authority (STWMA) as a result of implementation of maximum benefit commitments. Other parties seeking to utilize all or part of this assimilative capacity must obtain confirmation from City of Beaumont and STWMA that the project is consistent with their maximum benefit program. If confirmed by the City of Beaumont and STWMA, then the maximum benefit limitations apply. If not confirmed by the City of Beaumont and STWMA, then the antidegradation limitations specified for the management zone apply.

Discharge Limitations are based on current ambient water quality as shown in Tables 5-3 and 5-4 of the amended Basin Plan.

The Groundwater Management Zone has assimilative capacity created by IEUA and Chino Basin Water master as a result of implementation of maximum benefit commitments. Other parties seeking to utilize all or part of this assimilative capacity must obtain confirmation from IEUA and Chino Basin Watermaster that the project is consistent with their maximum benefit program. If confirmed by IEUA and Chino Basin Watermaster, then the maximum benefit limitations apply. If not confirmed IEUA and Chino Basin Watermaster, then the antidegradation limitations specified for the Chino 1, 2 and 3, and Cucamonga management zone apply.

	Discha	Discharge Limitations (mg/L)			
Groundwater Management Zones	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects		
San Timoteo "maximum benefit"	4007	5.07	6.7		
San Timoteo "antidegradation"	300	2.7	3.6		
Yucaipa "maximum benefit"	370 ⁸	5.0	6.7		
Yucaipa "antidegradation"	320	4.2	5.6		
Arlington	980	10	13.3		
Bedford **					
Coldwater	380	1.5	2.0		
Elsinore	480	1.0	1.3		
Lee Lake**					
Riverside – A	440 ⁵	4.4 ⁵	5.9		
Riverside – B	290	7.6	10.1		
Riverside – C	680	8.3	11.1		
Riverside – D	810	10.0	13.3		
Riverside – E	720	10.0	13.3		
Riverside – F	580 ⁵	9.5	12.7		
Temescal	770	10.0	13.3		
Warm Springs**	-	-	-		

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The Groundwater Management Zone has assimilative capacity created by the City of Beaumont, San Timoteo Watershed Management Authority (STWMA) and Yucaipa Valley Water District (YVWD) as a result of implementation of maximum benefit commitments. Other parties seeking to utilize all or part of this assimilative capacity must obtain confirmation from the City of Beaumont, STWMA and YVWD that the project is consistent with their maximum benefit program. If confirmed by the City of Beaumont, STWMA and YVWD, then the maximum benefit limitations apply. If not confirmed by the City of Beaumont, STWMA and YVWD, then the antidegradation limitations specified for the management zone apply.

The Groundwater Management Zone has assimilative capacity created by Yucaipa Valley Water District (YVWD) as a result of implementation of maximum benefit commitments. Other parties seeking to utilize all or part of this assimilative capacity must obtain confirmation from YVWD that the project is consistent with their maximum benefit program. If confirmed by YVWD, then the maximum benefit limitations apply. If not confirmed by YVWD, then the antidegradation limitations specified for the management zone apply.

	<u>Discharge Limitations</u>			
		(mg/L)		
Groundwater Management Zones	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects	
SAN JACINTO RIVER BASIN				
Garner Valley	300	2.0	2.7	
Idyllwild Area**				
Canyon	220 ⁵	1.65	2.1	
Hemet - South	730	4.1	5.5	
Lakeview – Hemet North	520	1.8	2.4	
Menifee	1020	2.8	3.7	
Perris North	570	4.7 ⁵	6.3	
Perris South	1260	2.5	3.3	
San Jacinto – Lower	520	1.0	1.3	
San Jacinto – Upper	320	1.4	1.9	

	Discharge Limitations			
	(mg/L)			
LOWER SANTA ANA RIVER BASIN	TDS	TIN Limit for Reinjection	TIN Limit for Recharge/ Percolation Projects	
La Habra**				
Santiago **				
Orange	580	3.4	4.5	
Irvine	910	5.9	7.9	

^{**} Numeric objectives not established; narrative objectives apply. Discharge requirements for salt discharges resulting from recharge projects within these groundwater management zones will be considered on an individual basis.

California Regional Water Quality Control Board Santa Ana Region

Monitoring and Reporting Program No. R8-2006-0005

GENERAL WASTE DISCHARGE REQUIREMENTS FOR THE DISCHARGE OF SALTS THROUGH INJECTION/PERCOLATION OF IMPORTED STATE PROJECT WATER, COLORADO RIVER WATER OR IMPORTED WELL WATER TO RECHARGE GROUNDWATER MANAGEMENT ZONES WITHIN THE SANTA ANA REGION

A. MONITORING REQUIREMENTS

- 1. All chemical and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be submitted with the annual summary report.
- 2. All sampling and sample preservation shall be in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association).
- 3. All analytical data shall be reported with method detection limits (MDLs)¹, and with identification of either minimum level (ML)² practical quantitation levels (PQLs)³ or limits of quantitation (LOQs).
- 4. Laboratory data must quantify each constituent down to the Practical Quantitation Levels specified in Attachment "A" or to "Detection Limits for purposes of Reporting (DLRs)' by the California Department of Health Services. Any internal quality control data associated with the sample must be reported when requested by the Executive Officer. The Regional Board will reject the quantified laboratory data if quality control data is unavailable or unacceptable. All QA/QC analyses must be run on the same dates when samples were actually analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff. Proper chain of custody procedures must be followed and a copy of that documentation shall be furnished upon request by Regional Board staff.

MDL is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in 40 CFR 136, Appendix B, revised as of May 14, 1999.

Minimum level is the concentration at which the entire analytical system must give a recognizable signal and acceptable point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

PQL is the lowest concentration of a substance that can be determined within \pm 20 percent of the true concentration by 75 percent of the analytical laboratories tested in a performance evaluation study. Alternatively, if performance data are not available, the PQL is the method detection limit (MDL) x 5 for carcinogens and MDL x 10 for noncarcinogens.

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- 5. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
- 6. The flow measurement system shall be calibrated at least once per year or more frequently, to ensure continued accuracy.
- 7. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Influent samples shall be taken at each point of inflow to the treatment system and shall be representative of the influent to the treatment system. Effluent samples shall be taken downstream of the last addition of waste to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters.
- 8. Whenever the discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.
- 9. The discharger may request a reduction in the constituents to be monitored and/or a reduction in monitoring frequency for a specific constituent(s) subject to the approval of the Executive Officer.
- 10. The discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Board at any time. Records of monitoring information shall include:
 - The date, exact place, and time of sampling or measurements; a.
 - b. The individual(s) who performed the sampling, and/or measurements;
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - The analytical techniques or methods used; e.
 - f. All sampling and analytical results;
 - All monitoring equipment calibration and maintenance records; g.
 - h. All original strip charts from continuous monitoring devices;
 - i. All data used to complete the application for this Order; and,
 - į. Copies of all reports required by this Order.
- Unless otherwise specified, recharge flows shall be reported in terms of daily average 11. recharge flows. The results of all monitoring required by this Order shall be reported to the Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this Order.

12. The discharger shall deliver a copy of each monitoring report in the appropriate format to:

California Regional Water Quality Control Board Santa Ana Region 3737 Main Street, Suite 500 Riverside, CA 92501-3348

- 13. A "grab" sample is defined as any individual sample collected in less than 15 minutes.
- 14. Daily samples shall be collected on each day of the week.
- 15. Weekly samples shall be collected on a representative day of each week.
- 16. Monthly samples shall be collected on a representative day of the month.
- 17. Annual samples shall be collected by the 10th working day of the following months:

Year	Annual Sampling Month	
2006-2010	June, September, December,	
2000-2010	March, respectively	
2011-2014	February, May, August,	
2011-2014	November, respectively	
2015-2018	April, July, October, January,	
2013-2016	respectively	

B. MONITORING OF STATE PROJECT WATER/COLORADO RIVER WATER/OTHER IMPORTED WATER FOR RECHARGE

1. A sampling station shall be established for each point of recharge and shall be located where representative samples of the water for recharge can be obtained. The following shall constitute the recharge water monitoring program:

Table I					
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis		
Total Water Flow	Mgd	Flow meter/totalizer	Continuous		
Total Nitrogen ⁴	mg/L	Grab ⁵	Quarterly		

Total Nitrogen is defined as the sum of nitrate, nitrite, ammonia, and organic nitrogen concentrations, expressed as nitrogen.

Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.

	Tal	ole I	
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis
Nitrate Nitrogen	mg/L	Grab ⁶	Quarterly
Total Inorganic Nitrogen	"	"	٠.,
Total Organic Carbon	۲,	"	cc
Total Dissolved Solids	۲,	"	cc
1-4 Dioxane	μg/L "		cc
Total Trihalomethanes (TTHM) ⁷	"	"	cc
N-Nitrosodimethylamine	"	"	cc
(NDMA)			
Methyl-tert-butyl ether (MTBE)	"	"	cc
Perchlorate	"	"	٠,٠
,	<u>Inorganic</u>	Chemical	
Aluminum	μg/L "	Grab	Annually
Antimony	"	"	٠,٠
Arsenic	"	"	cc
Asbestos	MFL	"	cc
Barium	μg/L "	Grab	cc
Beryllium	"	"	"
Cadmium	"	"	٠,
Chromium	"	"	"
Cyanide	"	"	"
Fluoride	"	"	٠,
Mercury	"	"	٠,
Nickel	"	"	٠,
Selenium	"	"	"
Thallium	μg/L	Grab	د د
		Chemicals (VOC)	
Benzene	μg/L	Grab	Annually
Carbon Tetrachloride	"	"	٠,
1,2-Dichlorobenzene	"	"	cc
1,4-Dichlorobenzene	"	"	cc
1,1-Dichloroethane	"	"	"
1,2-Dichloroethane	"	"	"
1,1-Dichloroethylene	μg/L	Grab	Annually
Cis-1,2-Dichloroethylene	μς/Ε	"	· · ·
trans-1,2-Dichloroethylene	"	"	، ،
Dichloromethane	"	"	، ،
1,2-Dichloropropane	"	"	
1,3-Dichloropropene	"	"	cc

Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.

Sum of bromodichloromethane, dibromochloromethane, bromoform, and chloroform.

	Tab	ole I	
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis
Ethylbenzene	"	"	
Monochlorobenzene	"	"	cc
Styrene	"	"	
1,1,2,2-Tetrachloroethane	"	"	cc
Tetrachloroethylene	"	"	cc
Toluene	"	"	cc
1,2,4-Trichlorobenzene	"	"	cc
1,1,1Trichloroethane	"	"	cc
1,1,2-Trichloroethane	"	"	cc
Trichloroethylene	"	"	cc
Trichlorofluoromethane	"	"	cc
1,1,2-Trichloro-1,2,2-	"	"	
Trifluoroethane			
Vinyl Chloride	"	"	cc
Xylenes ⁸	"	Grab	Annually
Non-Volat	ile Synthetic O	rganic Chemicals (SO	<u>Cs)</u>
Alachlor	μg/L "	Grab	Annually
Atrazine	"	"	
Bentazon	"	"	
Benzo(a)pyrene	"	"	cc
Carbofuran	"	"	cc
Chlordane	"	"	cc
2,4-D	"	"	cc
Dalapon	"	"	cc
Dibromochloropropane (DBCP)	"	"	cc
Di(2-ethylhexyl)adipate	"	"	
Di(2-ethylhexyl)phthalate	"	"	
Dinoseb	"	"	
Diquat	"	"	cc
Endothall	"	"	cc
Endrin	"	"	
Ethylene Dibromide (EDB)	"	"	
Glyphosate	"	"	
Heptachlor	"	"	ζζ
Heptachlor Epoxide	"	"	ζζ
Hexachlorobenzene	μg/L	Grab	Annually
Hexachlorocyclopentadiene	"	"	((
Lindane	"	"	د د
Methoxychlor	"	"	د د
Molinate	"	٠,٠	cc
Oxamyl	"	"	cc

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Limit is for either a single isomer or the sum of the isomers.

Table I							
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis				
Pentachlorophenol	"	"	"				
Picloram	"	"	"				
Polychlorinated Biphenyls	"	"	"				
Simazine	"	"	"				
Thiobencarb	"	"	"				
Toxaphene	"	"	"				
2,3,7,8-TCDD (Dioxin)	"	"	"				
2,4,5-TP (Silvex)	"	"	"				
Disinfection By-products							
			A mana 11-				
	μg/L	Grab	Annually				
Total Haloacetic acids (five) (HAA5) ⁹	u	٠	"				
Bromate	"	"	"				
Chlorite	"	"	"				
Notification Levels							
Copper	μg/L "	Grab	Annually				
Lead	"	"	"				
	Dadion	nuclides					
Combined Radium-226 and	Kaaton	<u>uciues</u>	1				
Radium-228	pCi/l	Grab	Annually				
Gross Alpha particle activity							
(including Radium-226 but	pCi/l	Grab	۲۲				
excluding Radon and Uranium)	"	"	"				
Tritium	"	"					
Strontium-90	"	"					
Gross Beta particle activity			"				
Uranium	pCi/l	Grab					

Sum of monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid),

2. The monitoring frequency for those pollutants that are detected during the required quarterly monitoring at a concentration greater than those concentrations shown in the Table below, shall be accelerated to monthly. To return to the monitoring frequency specified, the discharger shall request and receive approval from the Regional Water Board's Executive Officer or designee. If the detected concentrations are persistent and considerable, the discharger shall implement measures to reduce discharges of such constituent(s) into the ground. The discharger shall submit for approval by the Regional Board Executive Officer of the measures that will be implemented to reduce discharges of such constituents.

Parameter	Concentration (ug/L)
1-4 Dioxane	3^{10}
N-Nitrosodimethylamine (NDMA)	0.01^{10}
Perchlorate	6^{10}
Methyl-tert-butyl ether (MTBE)	13 ¹¹
Total Trihalomethanes (THM)	100 ¹¹

C. MONITORING OF DIVERTED STORMWATER FOR RECHARGE:

1. A sampling station shall be established for each point of recharge and shall be located where representative samples of the water for recharge can be obtained. The following shall constitute the recharge water monitoring program:

Table II					
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis		
Total Water Flow	mgd	Flow meter/totalizer	Continuous		
Total Nitrogen ¹²	mg/L	Grab ¹³	Quarterly		
Nitrate Nitrogen	"	"	cc		
Total Inorganic Nitrogen	"	"	cc		
Total Organic Carbon	"	"	cc		
Total Dissolved Solids	"	"	cc		
1-4 Dioxane	μg/L	"	cc		
Total Trihalomethanes (TTHM)			cc		
N-Nitrosodimethylamine (NDMA)	cc		cc		

¹⁰ Based on CDHS' notification Level

Based on CDHS' MCL

Total Nitrogen is defined as the sum of nitrate, nitrite, ammonia, and organic nitrogen concentrations, expressed as nitrogen.

Grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks.

Sum of bromodichloromethane, dibromochloromethane, bromoform, and chloroform.

Table II					
<u>Chemical</u>	<u>Units</u>	Type of Sample	Minimum Frequency of Sampling and Analysis		
Methyl-tert-butyl ether (MTBE)	μg/L	Grab ¹³	Quarterly		
Perchlorate	"	"	cc		

D. <u>REPORTING</u>:

- 1. The results of the above analyses shall be reported to the Regional Board within 24 hours of finding any discharge that is in violation of the recharge specifications.
- 2. Monitoring reports shall be submitted by the 30th day of each month and shall include:
 - a. The total daily volume of recharged/percolated or re-injected water (State Project water, Colorado River Water, imported well water, and diverted stormwater), and
 - b. The results of all chemical analyses for the previous month, and annual samples whenever applicable,
 - c. A summary of the month's activities.
- 3. If no recharge occurs during the previous monitoring period, a letter to that effect shall be submitted in lieu of a monitoring report.
- 4. All reports shall be arranged in a tabular format to clearly show compliance or noncompliance with each recharge specification.
- 5. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the recharge into full compliance with requirements at the earliest time and submit a timetable for correction.
- 6. Upon completion of the project, the discharger shall notify the Executive Officer of the Regional Board in writing about cessation of the recharge and request for a rescission of this Order.

All reports shall be signed by a responsible officer or duly authorized representative of the discharger and shall be submitted under penalty of perjury.

Ordered by		
	Gerard J. Thibeault	
	Executive Officer	
	. 2006	

Constituent	PRACTICAL QUANTITATION LEVELS FOR COMPLIANCE DETERMINATION					
1 Arsenic 7.5 GF/AA 2 Barium 20.0 ICP/GFAA 3 Cadmium 15.0 ICP 4 Chromium (VI) 15.0 ICP 5 Cobalt 10.0 GF/AA 6 Copper 19.0 GF/ICP 7 Cyanide 50.0 335.2/335.3 8 Iron 100.0 ICP 9 Lead 26.0 GF/AA 10 Manganese 20.0 ICP 11 Mercury 0.50 CV/AA 12 Nickel 50.0 ICP 13 Selenium 2.0 EPA Method 1638, 1640 or 7742 14 Silver 16.0 ICP 15 Zinc 20.0 ICP 16 1,2 - Dichlorobenzene 5.0 601 601.602/624 17 1,3 - Dichlorobenzene 5.0 601 18 1,4 - Dichlorobenzene 5.0 601 18 1,4 - Dichlorobenzene 5.0 601 18 2,4 - Dichlorobenzene 5.0 601 2 Benzene 1.0 604/625 21 Aldrin 0.04 608 22 Benzene 1.0 602/624 23 Chloroform 5.0 601/624 24 Chloroform 5.0 601/624 25 DDT 0.10 608 26 Dichloromethane 5.0 601 27 Dieldrin 0.10 608 28 Fluorantene 10.0 608 29 Endosulfan 0.50 608 30 Endrin 0.10 608 51 Halomethanes 5.0 601/624 52 Heptachlor 0.03 608 51 Hepthachlor Epoxide 0.05 608			PQL	Analysis		
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Beta 0.03 608		Beta	0.03	608		
Gamma 0.03 608		Gamma	0.03	608		
36 PAH's 10.0 610/625	36	PAH's	10.0	610/625		
37 PCB 1.0 608	37	PCB	1.0	608		
38 Pentachlorophenol 10.0 604/625	38	Pentachlorophenol	10.0	604/625		
39 Phenol 10.0 604/625	39	Phenol	10.0	604/625		
40 TCDD Equivalent 0.05 8280	40	TCDD Equivalent	0.05	8280		
41 Toluene 1.0 602/625	41	Toluene	1.0	602/625		
42 Toxaphene 2.0 608			2.0	608		
43 Tributyltin 0.02 GC				GC		
44 2,4,6-Trichlorophenol 10.0 604/625		-		604/625		

	EPA PRIORITY POLLUTANT LIST					
<u>Metals</u>		Acid Extractibles		В	Base/Neutral Extractibles (continuation)	
1.	Antimony	45.	2-Chlorophenol	91.	Hexachloroethane	
2.	Arsenic	46.	2,4-Dichlorophenol	92.	Indeno (1,2,3-cd) Pyrene	
3.	Beryllium	47.	2,4-Dimethylphenol	93.	Isophorone	
4.	Cadmium	48.	2-Methyl-4,6-Dinitrophenol	94.	Naphthalene	
5a.	Chromium (III)	49.	2,4-Dinitrophenol	95.	Nitrobenzene	
5b.	Chromium (VI)	50.	2-Nitrophenol	96.	N-Nitrosodimethylamine	
6.	Copper	51.	4-Nitrophenol	97.	N-Nitrosodi-N-Propylamine	
7.	Lead	52.	3-Methyl-4-Chlorophenol	98.	N-Nitrosodiphenylamine	
8.	Mercury	53.	Pentachlorophenol	99.	Phenanthrene	
9.	Nickel	54.	Phenol	100.	Pyrene	
10.	Selenium	55.	2, 4, 6 – Trichlorophenol	101.	1,2,4-Trichlorobenzene	
11.	Silver		Base/Neutral Extractibles		Pesticides	
12.	Thallium	56.	Acenaphthene	102.	Aldrin	
13.	Zinc	57.	Acenaphthylene	103.	Alpha BHC	
	Miscellaneous	58.	Anthracene	104.	Beta BHC	
14.	Cyanide	59.	Benzidine	105.	Delta BHC	
15.	Asbestos (not required unless requested)	60.	Benzo (a) Anthracene	106.	Gamma BHC	
16.	2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)	61.	Benzo (a) Pyrene	107.	Chlordane	
	Volatile Organics	62.	Benzo (b) Fluoranthene	108.	4, 4' - DDT	
17.	Acrolein	63.	Benzo (g,h,i) Perylene	109.	4, 4' - DDE	
18.	Acrylonitrile	64.	Benzo (k) Fluoranthene	110.	4, 4' - DDD	
19.	Benzene	65.	Bis (2-Chloroethoxy) Methane	111.	Dieldrin	
20.	Bromoform	66.	Bis (2-Chloroethyl) Ether	112.	Alpha Endosulfan	
21.	Carbon Tetrachloride	67.	Bis (2-Chloroisopropyl) Ether	113.	Beta Endosulfan	
22.	Chlorobenzene	68.	Bis (2-Ethylhexyl) Phthalate	114.	Endosulfan Sulfate	
23.	Chlorodibromomethane	69.	4-Bromophenyl Phenyl Ether	115.	Endrin	
24.	Chloroethane	70.	Butylbenzyl Phthalate	116.	Endrin Aldehyde	
25.	2-Chloroethyl Vinyl Ether	71.	2-Chloronaphthalene	117.	Heptachlor	
26.	Chloroform	72.	4-Chlorophenyl Phenyl Ether	118.	Heptachlor Epoxide	
27.	Dichlorobromomethane	73.	Chrysene	119.	PCB 1016	
28.	1,1-Dichloroethane	74.	Dibenzo (a,h) Anthracene	120.	PCB 1221	
29.	1,2-Dichloroethane	75.	1,2-Dichlorobenzene	121.	PCB 1232	
30.	1,1-Dichloroethylene	76.	1,3-Dichlorobenzene	122.	PCB 1242	
31.	1,2-Dichloropropane	77.	1,4-Dichlorobenzene	123.	PCB 1248	
32.	1,3-Dichloropropylene	78.	3,3'-Dichlorobenzidine	124.	PCB 1254	
33.	Ethylbenzene	79.	Diethyl Phthalate	125.	PCB 1260	
34.	Methyl Bromide	80.	Dimethyl Phthalate	126.	Toxaphene	
35.	Methyl Chloride	81.	Di-n-Butyl Phthalate	_		
36.	Methylene Chloride	82.	2,4-Dinitrotoluene			
37.	1,1,2,2-Tetrachloroethane	83.	2-6-Dinitrotoluene	_		
38.	Tetrachloroethylene	84.	Di-n-Octyl Phthalate	_		
39.	Toluene	85.	1,2-Dipenylhydrazine	_		
40.	1,2-Trans-Dichloroethylene 1,1,1-Trichloroethane	86.	Fluoranthene Fluorene	_		
41.	* *	87. 88.		_		
42.	1,1,2-Trichloroethane Trichloroethylene	88.	Hexachlorobenzene Hexachlorobutadiene	_		
44.	Vinyl Chloride	90.	Hexachlorocyclopentadiene Hexachlorocyclopentadiene			
44.	v myr Chloride	90.	пеластогосусторентациене			